To Resuscitate the Apparently Drowned---Methods Used by U.S. Life-Saving Service

TIRST Movements Made to Save a Drowning Person, and Following Operations That Have Proven Successful - Notable Cases of Restoration of Apparently Drowned Persons by the Life-Saving Service-How to Take a Drowning Man From the Water-First-Aid Knowledge That Is Always Found Beneficial During the Swimming and Boating Season.



parently drowned rson hauled out the water. What ould you do? Moments are preious; a delay of ve minutes, two inutes, even a ute, may mean

bunt around for a barrel or doctor? Or would you, with self-confidence of knowledge, at once manipulation give the unfortunate man, woman or child a fair chance to survive? Such a situation will doubtless

a life-saver the barrel enjoys a reputation will not re-establish respiration or circu-

Until within comparatively recent years necessary so as not to interfere with this



FIGURE 2-TO INDUCE INSPIRATION.

confront many during the approaching out of the corner of the mouth and keep working the bellows movement, the Holmes of the Hereford Inlet. N. it projecting beyond the lips. This pre- limbs of the patient should be rubbed life-saving station went outside the chest and induces inspiration. ter from the patient's stomach, but it with his elbows resting upon his own of the feet. knees, his hands over the body ready for The person at the head moves the patient's arms down beside the body as in figure 3, the assistant who holds the tongue changing hands if

the man standing over the body will

FIGURE 1-EXPELLING WATER FROM THE BODY.

man help. If any efforts were made at fall into the depressions between the ministered in teaspoonful or table-

When the crews of the United States suddenly, all his weight forward on After reaction is fully established, there

of remarkable restorations effected by or a delicate person should, of course, culty in breathing. If this happens, death

them their accounts were regarded by the be handled more gently.) As the in- is likely to occur unless immediate relief

touch the ground, throw, but not too dition may seem to require,

It may be stated, parenthetically, that as Vents the tongue dropping back and from the very beginning if a sufficient inlet in a sailboat for an afternoon's outclosing the windpipe. Now let another number of persons are at hand. The ing, accompanied by three men and his assistant grasp the patient's arms just rubbing should be done always toward small son. eping with its merits. below the elbows and draw them steadily the body, with firm, grasping pressure. Some hours after they left shore barrel is rarely at hand when upward until they rest extended past the using the bare hands, dry flannels or heavy storm came up, and to escape it head, the hands nearly meeting, as in handkerchiefs. If possible, the warmth they beat back into the inlet. After This movement expands the of the body should be promoted by the anchoring their boat where it would be At the same time let another assistant stomach and hot-water bags or heated ashore in a skiff. namely, the expulsion of wa- take position astride the patient's hips bricks or stones to the limbs and soles a considerable distance from the land the

Rule 4-After Treatment.

As soon as breathing is established the

application of hot flannels to the likely to ride safely they started to go became almost as dark as night the darkness and rain shutting the boat out of sight from the shore, except when the agitated waters of the inlet were illuminated by blinding flashes of lightning the belief generally obtained, among movement. Just before the patient's patient should be stripped of all cloth- the boat, precipitating all hands overphysicians and laymen alike, that a per- arms reach the position last described, ing, wrapped in blankets and put to board. Holmes managed to get hold of bed comfortably warm, but with plenty his son and regain the boat, but a heavy minutes' immersion, with no pulse or thumbs rest on either side of the pit of of fresh air. Whisky, brandy or other his grasp. The three other men did not heart action apparent, was beyond hu- the stomach and allowing the fingers to stimulant and hot water should be ad- get back to the boat at all. One of them, it was afterward learned, was The others, however, were providentially carried by the tide over a submerged sandbar, upon which they found a footing in water up to their waists. Holmes, also, was lucky enough to reach the same bar shortly afterward, though without the boy.

> It is indisputably shown by the evidence in this case that the storm lasted fully half an hour. When it had passed and the light had become stronger, Holmes, still on the bar, recovered the body of his son, which he discovered near him under water in an eddy.

adrift from one of two vessels involved in collision somewhere in the the marooned men. Holmes' companby a boat that was seen leaving the

After rescuing Holmes, the occupant

public with more or less skepticism, stant pressure on the waist is relieved is afforded. In such cases a large mus-



It so happened that during the prevalence of the storm a boat broke locality, and drifted upon the bar near ions secured the boat and carried the body of the child ashore, leaving the grief-stricken parent to be picked up

keeper of the life-saving station-proceeded to a pier, where the two men had landed the boy. Up to the time keeper reached the pier nothing had been done in the way of an attempt to restore the boy, it being supposed by the men who brought him ashore, and by other persons who had come upon the scene, that he was dead. of persistent endeavor had the satis- ment has brought them opportunity for time ago Dr. Salmon paid a visit to this mologist, gets \$3,500. faction of seeing his patient gasp. Thus financial betterment. encouraged, he kept at his task with encouraged, he kept at his task with It is an accepted fact that the Depart- Uruguay for the purpose of purchasing the same of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in the arms of the United States with something like \$20,000 to spend in the arms of the United States with something like \$20,000 to spend in the arms of the United States with something li renewed energy, and an hour later was able to place the boy in the arms of ment of Agriculture of the United States with something like \$20,000 to spend in his overjoyed father, well on the road leads the world in matters agriculture. with something like \$20,000 to spend in Republic has had several Americans con-

usually unintelligent and perfunctory, and Now, using his knees as pivots, he minutes during the first hour and as remarkable resuscitation ever perintended merely to satisfy relatives or will at the moment the national support of the government.

Support of the government.

During the last few years usually unintended merely to satisfy relatives or will, at the moment the patient's hands often thereafter as the patient's hands of the patient' service took place July 4, 1906, near it also is the model by which other simi- mend no less than a dozen men for for-Wakefield, R. I., under the personal lar departments are patterned. life-saving service, in the practice of a his hands, and at the same time squeeze is considerable danger of congestion of simple yet scientific method of resuscitations, and at the same time squeeze is considerable danger of congestion of the mentally, morally and physically, but also direction of the mentally, morally and physically, but also so famous has his bureau become in the practice of a his hands, and at the same time squeeze is considerable danger of congestion of the world at large that the imsimple yet scientific method of resuscitation and management the world at large that the life-saving methods of organization and management the world at large that the life-saving methods of organization and management plicit confidence reposed in the wonders the superintendent of the third life-saving methods of organization and management plicit confidence reposed in the wonders the superintendent of the third life-saving methods of organization and management plicit confidence reposed in the wonders the superintendent of the slowly counts four, and suddenly tained for at least forty-eight hours the fice of the service in Washington reports letting go with a final push. (A child patient may be seized with great diffiof Wakefield, was the man resusci- low, but they also send to the United comes embarrassing to the men them-



FIGURE 3-TO INDUCE EXPIRATION.

by a piece of wood inserted between the severingly. teeth. Next turn the patient upon his

headquarters to authenticate them in es-

sential particulars, that the doubting

Thomases were finally convinced of their

The experience of Uncle Sam's flife-sav-

ing corps along the line indicated shows

that success may be often won in cases seemingly hopeless. Unless the patient

has been in the water half an hour or

longer there is a chance that the spark

of life, if any remains in the body at

all, may be fanned into full flame. One

case is on record in the files of the life-

saving establishment in which a small

boy was restored to consciousness after

twenty-five minutes submersion; still an-

other, in which more than thirty minutes

elapsed from the time the victim was

precipitated into the water until the work

of resuscitation was undertaken. But

The system employed in the life-saving

service in restoring the apparently drown-

ed consists of four simple rules, the

principles of which may be easily com-

rule 2, how to expel water from the body;

Rule 1-Preliminary Treatment.

Regin the work of resuscitation im-

mediately after the body is removed from

the water. Do not take the patient from

the scene of the accident unless he is in

danger of freezing. Keep the face exposed

to the air, and turned toward the wind.

Wipe dry the mouth and nostrils. Open

the clothing sufficiently to expose the

chest and slap the chest smartly two or

three times with the open hand. If the patient does not immediately revive pro-

consciousness returns.

ceed according to rule 2.

rule 3, how to re-establish breathing, and

mitted to memory. Rule I tells what to do in the way of preliminary treatment;

Rule 3-To Produce Breathing.

placed under him as to raise the body at til breathing is established. wing a handkerchief, draw the tongue interfere with the action of those On July 5, 1902, Surfman William E.

manipulation of the arms and chest is assist respiration by the bellows move- ing the progress of a boat race. As called the bellows movement. It ment, as explained in rule o.

Separate the jaws and keep them apart should be kept up deliberately and person must work alone, do first struck Mooney on the head, rendering no other testimonial is needed than the bor, this country offers an interesting as directed in rules 1 and 2, then place him unconscious in which condition

which it was turned when the rule hands meet over the lower ribs, then upon his back with the roll of clothing so tion for from one to four hours, or unplaced under him as to raise the body at

the pit of the stantach. Let an assistant, While care should be taken not to the head.

rolled blanket or clothing under his back. by the sail.

Rule 2-To Expel Water From the them while the count is repeated. This before the plaster takes effect, carefully sailing skiff off White Hill, R. I., durthe boat went over, the swinging boom ed land, which are now prosperous farms,

> kerchief under the chin and tying it over freed Mooney by a hazardous effort and brought under irrigation. culture, the head. culture, got him back to the boat. Owing to the Dr. Mead apparently considers himself is \$4,000. got him back to the boat. Owing to the Dr. Mead apparently considers himself is \$4,000.
>
> teen-hundred-dollar appointment here.
>
> tion and all requests in this line are comblacksmith's condition, and to the rough- a fixture in the scheme of Australian as C. H. T. Townsend of this city is now
>
> The Brazilian field is a most promising plied with if possible.

An employe of the service named Streeter, also out on the water in a sailboat, sighted the overturned craft a third of a mile away, went to the rescue and carried Mooney and the resourceful voungster ashore. With the assistance of other members of the service who met the boat when it landed Streeter immediate

his head above the surface. The best he

could do was to hold on to the man's

collar with one hand while with the other he supported himself alongside the

half-submerged boat.

ly set to work over the body. Supt Knowles states in his report that when Mooney was taken from the boat he was purple, and that when artificial respiration was begun his arms were so rigld that it required a man at each mem ber, using both hands, to work them.

The first sign of life was observed in the body after an hour and twenty minutes' continuous manipulation. Constant rubbing, continued artificial respiration and the application of heated stones to the feet, the armpits and over the heart effected a steady improvement in the patient's condition, and after a further lapse of twenty-five minutes a physician prespulse. The bellows movement and rubbing were continued an hour and fortyeight minutes longer, and Mooney was then removed to his home, where he continued to receive needed after treatment. He regained consciousness nine hours aftin this case the conclusion seems fully off. Be sure to loosen the legs of your until he becomes quiet, then catch him position swim for the snore. If you are established that not less than thirty-two drawers if they are tied at the ankles. by the hair or collar, or under the arms, a good swimmer you will get to land in minutes passed after Mooney was thrown If this is not done the garment is liable turn him on his back and give him a this way sooner than in any other overboard and before efforts to restore to fill and act as a drag. Before swimming to the rescue of a fears by assuring him in a firm voice Now quickly throw yourself upon your the one you are trying to save.



FIGURE 5-TO INDUCE EXPIRATION (ONE OPERATOR.

much clothing as can be quickly thrown instructions. Keep beyond his reach With one or both hands helding

FIGURE 4-TO INDUCE INSPIRATION (ONE OPERATOR).

During the last few years Dr. L. O.

Dr. Howard and his men are looked

Of course they don't go at once, and

quick pull. This last movement will bring Moreover, you will be able to keep your

for a boat to pick you up, or for assist ance to arrive from some other source If you have to dive to get hold of your man seize him with only one hand, leav ing the other hand free to be used in

confunction with your feet in getting

back to the surface.

Hotel Lobby Ghosts.

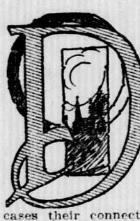
CHARLES A. HARBAUGH,

balmy afternoon were some fifty men in different stages of somnolence. Presently a bell boy passed shouting: "Mr. Zachary Taylor. Mr. Zachary Taylor, please.

The name made everybody sit up. "Zachary Taylor?" said a smooth-faced youth. "That name sounds familiar." "Familiar?" snorted the gray-beard beside him. "Good Lord!"

Then Zachary Taylor appeared. He was a dapper little fellow known to nobody there except a personal friend who had wanted him paged, yet he had attracted as much attention as royalty.

"Scenes like that are common in hotel lobbies," said a clerk. "Nearly every day some name once famous is paged in New York hotels. Of course, the boy is not trying to call from the grave the original possessor of the great name, but the loungers in the lobby show almost as much interest as if he were.



URING the last ten fairs, as he has built himself a hand- the state entomologist of Peru at more one. The country is as large as all of years nearly fifty, some home and invested in realty, as be- than double the salary he received here. Europe, and, while the Amazon affords men, experts of the community. the Department of D. E. Salmon, once chief of the bureau wealth of farming facilities.

country with the minister of finance of

States for everything portable, from seeds selves and also the home department. The reports came in with such frequency, the operator at the patient's head will tard plaster should be applied to the Mooney and a companion were thrown to machinery, and then send again for an however, and so much care was taken by again draw the arms upward and hold chest. Should the patient begin to gasp into the water by the capsizing of a American expert- who shall be recommended by this department to come with to take up his abode among them for a matter of performing miracles for the time and start things going on the latest relief of the bug-infested, pest-ridden at a salary of \$2,500. His work in Florida a good record as a pathologist at Mysore,

> revolution throughout the world in farm particular bureau that the cry "Get an management, stock raising and horticul- American entomologist and the bugs will tural development, which had its origin all go!" is heard from the remotest cor- Wight, now in Europe on a special mis- interesting that it has been called the in the United States, has become universally widespread, because the pioneer tomologist arrives on the scene of his work has almost entirely been done by new work he is astounded to hear the turn. The other four men desired have ing, only one-third of the land is available American experts. In spite of the fact uncompromising statement going the not yet been selected. that already a small army of American rounds that 'now we have an American scientific men are scattered over the entomologist our bugs will at once go." globe almost every month, the department here receives requests for more then the American expert has some rough meh, and notwithstanding the fact that uphill work cut out for him to make the foreign berth usually carries double good. In many cases he is the pioneer the amount of salary, besides other induce- in an absolutely new field. His work in too, there is reluctance in severing conments, there is always more or less diffi- organizing a station or bureau, over- nections with the department here, par- in the bureau of plant industry has at culty in getting men to fill the desired re- coming primitive superstitions, uprooting ticularly as they have no assurance of tracted world-wide attention. A numquirements on even the shortest of con- settled ideas, to say nothing of combating ever getting back, though that not infre- ber of experts connected with the depart-

> financial reward which frequently falls near absorbing every hour of his time, their future when the contracts have ex- tioned V. C. Brewer, now at Pretoria, to the lot of Americans in foreign service, especially if his contract be a short one. pired. Very frequently all of the work South Africa, at a salary of \$2,000, and He came to the department here in 1899 It is needless to say that these men indesired of them may be accomplished W. H. Scherffius, another tobacco exfrom Wyoming, where he had been state variably make good. The constant de- during the term of the first contract, and pert, who is also at Pretoria in the caengineer. His duty in the Department of mand for them from all directions is when that is completed they must cast pacity of chief of the tobacco division Agriculture was to organize and super- sufficient proof of that fact. vise the investigation work being carried Because of the arduous and complicat- usually to the young bachelors to whom salary of \$5,000. on in irrigation. This work was later ed nature of their work, the chief of the the novelty, adventure and valuable exextended to include the drainage of land home bureau often advises the young perience make the most of an appeal. for farming, including the removal of bachelors to remain unmarried throughsurplus water in the irrigated regions. In out the period of their contract, believing of entomology, gets the most frequent 1907 Dr. Mead left the service of the that the best interest of all concerned requests from foreign governments, and United States to accept a government may be served by a man being unham- that bureau has also contributed a large velopment of the system of irrigation. followed, but sometimes the prospect of The first salary offered and accepted by from three to five years spent alone in tract for five years.

had great need of a thorough system of hustled off on a honeymoon to New Zea-irrigation. Of the work Dr. Mead has land, Patagonia or Afghanistan, as the culture. There recently a large tract of progress, especially in the introduction of done with the vast stretches of reclaim- case may be. as directed in rules 1 and 2, then place him unconscious, in which condition fact that in addition to paying all of his pointment to a foreign field broke all phase of farming. Rice and tobacco are the patient face up as in figure 4, with he was caught and held under water expenses out to Australia for himself, pledges to remain unmarried, and as the chief products, and it was to gain follow up some special investigation in pledges to remain unmarried, and as the chief products, and it was to gain follow up some special investigation in pledges to remain unmarried, and as the chief products, and it was to gain follow up some special investigation in wife and four children, furnishing transface, with a roll of clothing under his stormach, and for thirty seconds, or as lower the seconds of the second as directed in rule 2, rolling the body patient's sides, bend them and bring in a dazed condition and evidently unaas directed in rule 2, rolling the body patient's sides, bend them and bring in a dazed condition and evidently unative to read in single blessedness was cultural development, and when she described to remain in single blessedness was cultural development, and when she described a director for the state experiment also for seeds, slips, roots, plants, bulbs are to read in single blessedness was cultural development, and when she described a director for the state experiment also for seeds, slips, roots, plants, bulbs are to remain in single blessedness was cultural development, and when she described a director for the state experiment also for seeds, slips, roots, plants, bulbs are to remain in single blessedness was cultural development, and when she described a director for the state experiment also for seeds, slips, roots, plants, bulbs are to remain in single blessedness was cultural development, and when she described a director for the state experiment also for seeds, slips, roots, plants, bulbs and even bugs and samples of soil. The press downward and inward with a firm which it was turned when the rule press downward and inward with a firm, length he discovered Mooney under the in that country is entirely in the hands. In the list of entomologists the most station at Para Walter Fischer, who was and even bugs and even by means of a handkerchief wrapped the rule turn the patient once more on a round the foreinger. Turn the patient of the patient once more on his back with the roll of clothing so tion for from one to four hours, or unthe prostrate mast, dived under the sail the obtaining of settlers for the lands entomology, union department of agri- its appreciation by increasing his origi- the rate of fifteen to twenty letters at

agricultural col- American republics, whose chief industry C. W. Mally. is the raising of 30,000,000 cattle and The Porto Rican Sugar Producers' Asleges, commercial sheep, offered Dr. Salmon a salary of sociation has drawn three Washington

> eign work from his bureau of entomology. plished in the most efficient manner. branches of the work. Henry F. Schultz, a salary of \$3,000, was also put through formerly special agent in charge of sub- the Chinese diplomat's grilling. upon as wizards and magicians in the tropical introductions in the bureau of Another Asiatic post is filled by a for

> farm and fruit lands of foreign countries. and Panama was responsible for the of- India, at a salary of \$4,000. Here the So great has become the faith in this fer of the South American position. Argentine already has an American en- ture, as two-thirds or 192,000,000 of them tomologist, A. W. Rosenfeld, also from are employed in it. The physical fea-Louisiana, and it is expected that W. F. tures of the country are so varied and ners of the earth. When the Yankee en- sion for the department, will proceed to "epitome of the whole earth." While two-Buenos Aires immediately upon his re- thirds of the population engage in farm-

With all of the many inducements the crops fail through the long droughts thrown out by foreign powers to get men the terrible famines like that of 1900 ocfrom the United States there is not over cur. much alacrity shown in accepting these positions. Most of these men prefer to Dr. Elwood Mead is perhaps one of the learning the language resolves itself into tions hold from three to five year con-The bureau of plant industry, like that

within the allotted six week or three years ago John C. Barnett, who was con- tion of 1900, Porto Rican entomologist Australia, with its great droughts and wide diversity of plant and animal life, had great need of a thorough system of irrigation. Of the work Dr. Mond has a local part of the property of th waste land sufficient for 250,000 people new foods. was opened up by irrigation. With elepromptly and thoroughly broke all rec- the benefit of his knowledge in reference foreign fields. Several years ago James

culture, Transvaal, whose present salary nal \$3,500 to \$5,000. He resigned a four- that. Each one receives careful atten-

comes a citizen of good standing in any This picturesque land of the Incas and steam navigation with its various tribushifting sandy deserts is putting forth taries to the extent of 4.000 miles through various bureaus of Somewhat similar is the lot of Dr. strenuous efforts to make the most of her a most fertile land having innumerable varieties of vegetable and animal life. Agriculture, have of animal industry, but for the last four C. B. Hardenberg, formerly of this city, there is only one acre out of every 170 or five years in charge of the veterinary is now government entomologist of the under cultivation, because of the scarcity been taken out of department of the University of Monte- Transvaal, and another American is of farmers and the indifference of the the service by for- video, Uruguay. This enterprising little working out problems of parasite destruc- natives. Brazil is the home of the caouteign governments, country, the smallest of all of the South tion at Grahamstown, Cape Colony. He is chouc tree, which furnishes rubber for

institutions and \$6,000 per year, a three-year contract and men for their work, though the salaries Some years ago a demand came for exuniversities. In all a house to live in. His salary was to be offered at the beginning were but little perts to go to Manchuria to organize an universities. In all a nouse to live in. His salar, was to be official at the beginning with the depart paid in gold, as is the custom in all of above those they received here, except in agricultural college and experiment stabody in hand, and after half an hour cases their connection with the depart the South American countries. A short the case of D. I. Van Dine, as chief entotion at Mukden. The natives desired more extensive knowledge regarding the improved methods of cultivating their

In point of size, efficiency, equipment and station work in his adopted country. The nected with their experiment station arrangements, which included, among extensive scientific operations there is University of Montevideo is a state in- work, and now that they have decided to state in stitution and its work naturally has the none superior and few, if any, equal. In stitution and its work naturally has the enlarge this station into a bureau of en- Minnesota, was secured for the post after tomology they plan to have Americans both the chief of the bureau and Mr R. E. Blouin, once director of one of the mentally, morally and physically, but also already under way for six men recom- insisting that he should go out as a marmended by this department to go down ried man. Mr. Thomhave, who accepted there and assume charge of the different the position as Mr. Parker's assistant at

> plant industry, is already on his way to mer employe of the bureau of plant in-Buenos Aires to follow his line of work, dustry here. Leslie C. Coleman has made chief occupation of the people is agricul-

remain under the Stars and Stripes. Then, The tobacco work of the department with the climatic and soil conditions, and quently happens. As most of these posi- ment have been secured by foreign govbest examples of the high regard and a herculean task which comes pretty tracts men of families have to figure on ernments, among whom may be menabout for some other connection. So it is of their department of agriculture, at a

Another conspicuous figure in the foreign agricultural field is that of Otis W. Barrett, now in the service of the Portuguese government in East Africa, with headquarters at Mozambique, at a salposition in Victoria, Australia, his work pered by a wife and possible family. number of men to the progress of science the Portuguese service Mr. Barrett had there to be in connection with the de- Generally the wisdom of this advice is in all parts of the world. ary of \$5,000. Prior to his acceptance of occupied various important positions. He was in the employ of the West India 1mhim was \$6,000 per annum, with a con- some faraway land among an entirely Siam has been making rapid strides in traveling agent for the commission for provement Company, Jamaica in 1894; the best of practical resolutions, and lo, agriculture of late years, and about three the Mexican exhibit at the Paris exposi-

Harmon Benton of this city is now in

thologist for one of \$3,250. He has since